

Applicant : J. Stuart Cumming
Appl. No. : 09/943,910
Examiner : Kamrin R. Landrem
Docket No. : 13533.4030

Amendments to the Claims

This listing of claims will replace all prior versions and listings of claims in the application:

1. (withdrawn) An intraocular lens for implanting within a natural capsular bag of a human eye, said lens implant comprising:

a lens body having anterior and posterior sides and including an optic and two or more plate haptics spaced about said optic, said haptics having inner ends adjacent to said optic and outer ends extending from said optic, said haptics having lateral edges; and

at least one of said haptics having one or more notches spaced about said lateral edges of said haptics and at least one of said haptics having a thinner portion adjacent the optic.

2. (withdrawn) A lens according to claim 1, wherein
said notches have an edge portion.

3. (cancelled)

4. (cancelled)

5. (withdrawn) A lens according to claim 2, wherein:
said edge portion being disposed substantially transversally to a longitudinal axis of said haptic.

6. (withdrawn) A lens according to claim 2, wherein:
said edge portion being disposed substantially transversally to a side edge of said haptic.

RECEIVED
AUG 17 2004
TECHNOLOGY CENTER 3700

Applicant : J. Stuart Cumming
Appl. No. : 09/943,910
Examiner : Kamrin R. Landrem
Docket No. : 13533.4030

7. (withdrawn) A lens according to claim 1, further comprising:
a plurality of protuberences protuberances extending outwardly from at least one of the anterior and/or posterior sides of one or more of said haptics to fixate said haptic in a natural capsular bag of an eye.

8. (withdrawn) A lens according to claim 1, wherein:
at least one of said haptics has a plurality of openings formed therethrough to allow fibrosis of an anterior capsule remnant to a posterior capsule remnant through said haptic outer end opening following implantation of said lens into a natural capsular bag of an eye.

9. (previously presented) An intraocular lens for implanting within a natural capsular bag of a human eye, said lens implant comprising:
a single optic only having anterior and posterior sides and one or more plate haptics extending from the edge of said optic,
said haptics having inner ends adjacent to said optic and outer ends extending from said optic, at least one haptic having a thinner portion adjacent the optic,
said haptics being adapted to move said optic anteriorly and posteriorly relative to the outer ends of said haptics upon constriction and relaxation of the ciliary muscle of the eye, and
said haptics having at least one protuberance extending from at least one surface of said haptic.

10. (previously presented) The lens according to claim 9, wherein said at least one protuberance extends anteriorly from said haptics.

11. (previously presented) The lens according to claim 9, wherein said at

Applicant : J. Stuart Cumming
Appl. No. : 09/943,910
Examiner : Kamrin R. Landrem
Docket No. : 13533.4030

least one protuberance extends posteriorly from said haptics.

12. (previously presented) The lens according to claim 9, wherein said at least one protuberance extends both anteriorly and posteriorly from said haptics.

13. (previously presented) The lens according to claim 9, wherein said at least one protuberance extends laterally from said haptics.

14. (previously presented) The lens according to claim 9, wherein at said least one protuberance extends anteriorly or posteriorly, or both anteriorly and posteriorly from said haptics, and may have at least one other protuberance that extends laterally from said haptics.

15. (cancelled)

16. (withdrawn) The lens according to claim 9, wherein said haptics have lateral edges, and

at least one of said haptics have one or more notches spaced about said lateral edges of said haptics.

17. (previously presented) The lens according to claim 9, wherein said lateral edges of said haptics are parallel to each other, or tapered outwardly from the optic, or tapered inwardly from the optic.

18. (withdrawn) The lens according to claim 9, wherein said haptics have one or more openings formed therethrough.

19. (withdrawn) The lens according to claim 9, wherein the protuberances

Applicant : J. Stuart Cumming
Appl. No. : 09/943,910
Examiner : Kamrin R. Landrem
Docket No. : 13533.4030

are prong portions with globular knob end portions.

20. (withdrawn) The lens according to claim 9, wherein the protuberances are prong protuberances.

21. (previously presented) The lens according to claim 9, wherein the protuberances extend outwardly from the anterior and/or posterior sides.

22. (previously presented) The lens according to claim 9, wherein the protuberances extend outwardly from the peripheral border of said haptic.

23. (withdrawn) An intraocular lens for implanting within a natural capsular bag of a human eye, said lens implant comprising:

a lens body having anterior and posterior sides and including an optic and two or more plate haptics spaced about said optic, said haptics having inner ends adjacent to said optic and outer ends extending from said optic, said haptics having lateral edges; and

at least one of said haptics having one or more notches with an edge portion and the notches being spaced about said lateral edges of said haptics, said edge portion being disposed at a substantial angle to a longitudinal axis of said haptic.

24. (withdrawn) An intraocular lens for implanting within a natural capsular bag of a human eye, said lens implant comprising:

a lens body having anterior and posterior sides and including an optic and two or more plate haptics spaced about said optic, said haptics having inner ends adjacent to said optic and outer ends extending from said optic, said haptics having lateral edges; and

at least one of said haptics having one or more notches with an edge portion

Applicant : J. Stuart Cumming
Appl. No. : 09/943,910
Examiner : Kamrin R. Landrem
Docket No. : 13533.4030

and the notches being spaced about said lateral edges of said haptics, said edge portion being disposed at a substantial angle to a side edge of said haptic.

25. (previously presented) An intraocular lens for implanting within a natural capsular bag of a human eye, said lens implant comprising:

a single optic having anterior and posterior sides and one or more haptics extending from the edge of said optic,

said haptics having inner ends adjacent to said optic and outer ends extending from said optic,

said haptics being adapted to move said optic anteriorly and posteriorly relative to the outer ends of said haptics upon construction and relaxation of the ciliary muscle of the eye, and

said haptics having protuberances extending both anteriorly and posteriorly from at least a surface of said haptic.

26. (previously presented) The lens according to Claim 25, wherein said haptics comprise at least a pair of haptics both having protuberances extending both anteriorly and posteriorly therefrom.

27. (previously presented) The lens according to Claim 26, wherein said haptics are plate haptics and each have a thinner portion adjacent the optic.

28. (withdrawn) The lens according to Claim 9 wherein at least one of said haptics has one or more notches with an edge portion and the notches being spaced about said lateral edges of said haptics, said edge portions being disposed at a substantial angle to a longitudinal axis of said haptic.

29. (withdrawn) The lens according to Claim 25 wherein at least one of said

Applicant : J. Stuart Cumming
Appl. No. : 09/943,910
Examiner : Kamrin R. Landrem
Docket No. : 13533.4030

haptics has one or more notches with an edge portion and the notches being spaced about said lateral edges of said haptics, said edge portions being disposed at a substantial angle to a longitudinal axis of said haptic.

30. (new) A flexible accommodating intraocular lens including a flexible optic to be placed within the capsular bag of the eye,

the lens comprising an optic with anterior and posterior sides and two or more extending portions from the optic,

the extending portions having at their distal ends fixation devices such that the intraocular lens has four or more fixation points for centration and fixation in the periphery of the capsular bag, and

the lens being adapted to move anteriorily upon ciliary muscle construction.